SWP Weekly Water Quality Summary

October 13 to 19, 2010

Electrical Conductivity (EC): EC concentrations increased at Harvey O. Banks Pumping Plant (HBP), Check 41 and Vallecitos, but decreased at Check 29, and Barker Slough. All EC concentrations were below the Article 19 Monthly Average Objective of 733 µS/cm (440 mg/L). Concentrations ranged from 245 to 572 µS/cm (147 to 343 mg/L). The lowest concentration of 245 µS/cm (147 mg/L) occurred at Barker Slough, and the highest concentration of 572 µS/cm (343 mg/L) occurred at Check 41. EC increased slightly at HBP from 504 µS/cm to 507 µS/cm (302 to 304 mg/L).

Bromide*: Concentrations exceeded the California Bay-Delta Authority Objective of 0.05 mg/L at all the stations. Barker Slough had the lowest concentration of 0.07 mg/L, while the highest concentration of 0.29 mg/L occurred at Check 41.

* Bromide concentrations are calculated values using linear regression equations using EC concentrations and are not as accurate as bromide concentrations from laboratory analysis.

Turbidity: Turbidity levels increased at all locations except at Check 41 and ranged from 2.8 NTU to 37.5 NTU. The lowest level of 4.1 NTU occurred at Check 41, while the highest level of 37.5 NTU occurred at Barker Slough. Turbidity levels at HBP increased slightly from 7.2 NTU to 7.6 NTU.

Dissolved Organic Carbon (DOC): Concentrations decreased from 2.0 mg/L to 1.9 mg/L at HBP and from 1.6 to 2.2 mg/L at Edmonston Pumping Plant, but increased from 1.5 mg/L to 1.7 mg/L at Check 13.

Taste and Odor Compounds: As of last week, MIB and geosmin concentrations in the SWP ranged from ND to 13 µg/L at HBP, Clifton Court Inlet, Del Valle Check 7, O'Neill Outlet and Check 41.

Groundwater pump-ins to the California Aqueduct totaled 1,500 AF. The breakdown of the total volume was:

- Kern Water Bank = 17 AF
- Semitropic (2&3) Water Storage District = 1,483 AF

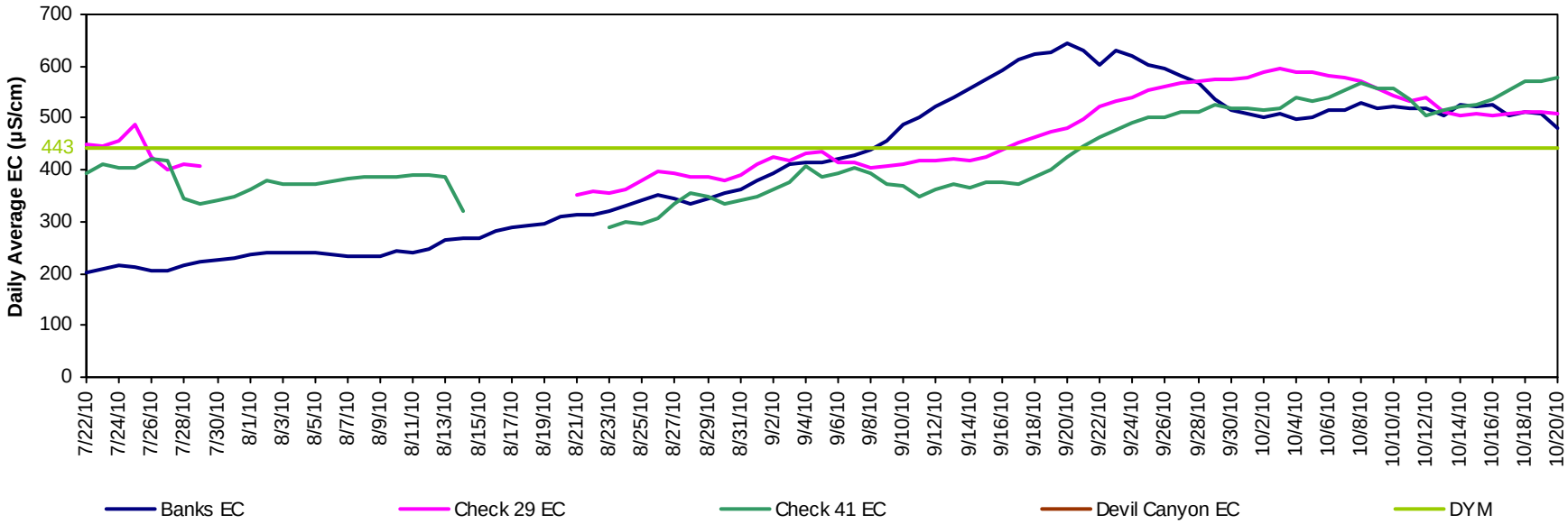
During the week, no data were available for Devil Canyon due to malfunctioning instruments.

The intent of the weekly water quality (WQ) summary is to acquaint contractors, scientists and interested parties with the status of water quality in the State Water Project (SWP). You can direct your comments, questions and suggestions to Cindy Garcia @ 916-653-7213 or Austine Eke @ 916-653-7227. To view WQ data from the automated stations along the SWP, visit: http://www.water.ca.gov/swp/waterquality/AutostationData/Autostation_map.cfm, and

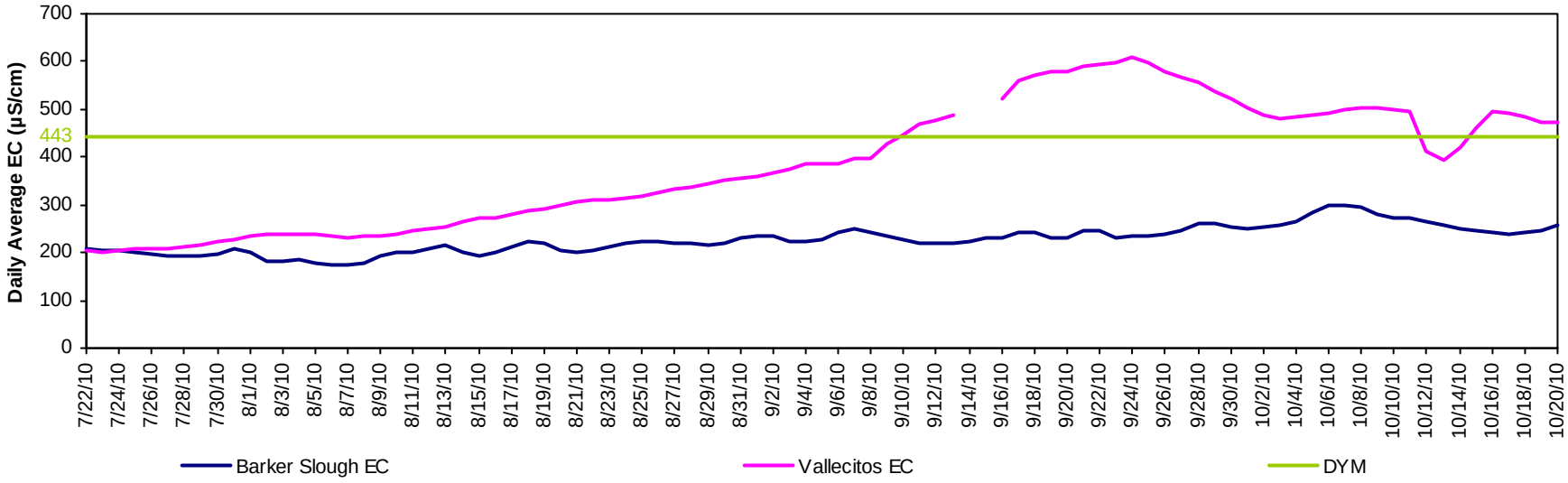
click on a station name on the map to link to the station's data on the California Data Exchange Center (CDEC) website.

To view the Edmonston's daily AF pumping data, visit www.water.ca.gov. Click on the "State Water Project" tab, and click on the "Operations Control" link. Look under the "Project-Wide Operations" header for the "Dispatcher's Daily Water Report."

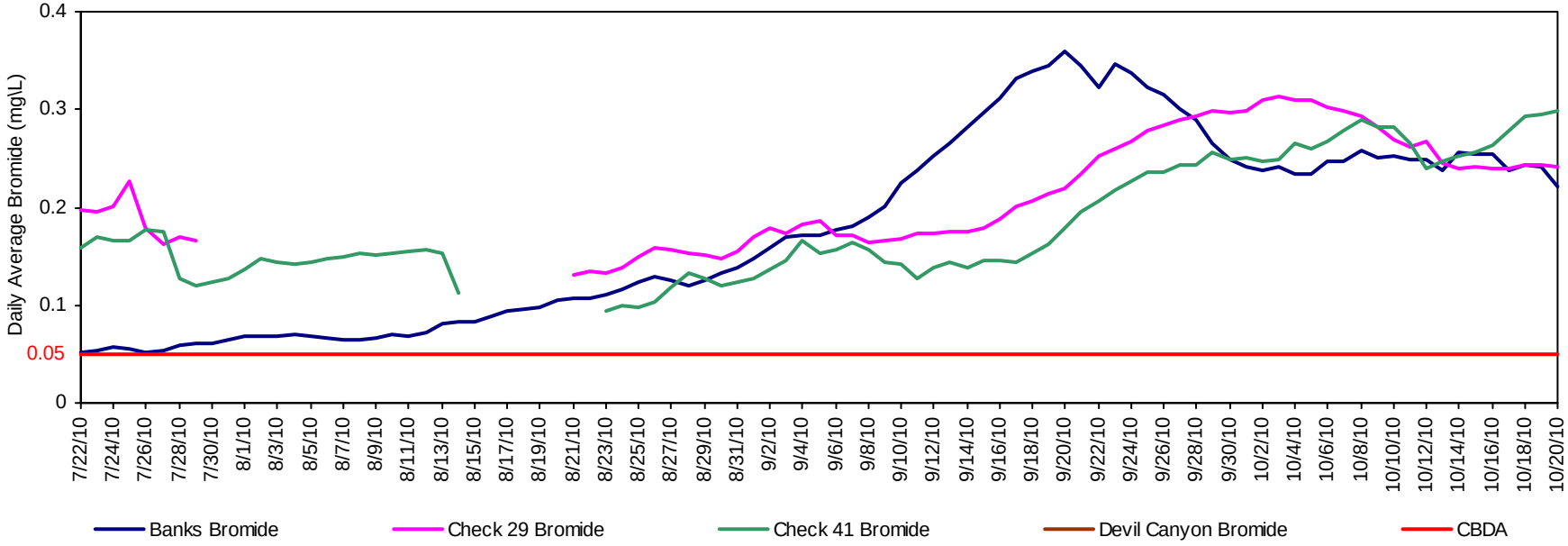
California Aqueduct - Electrical Conductivity



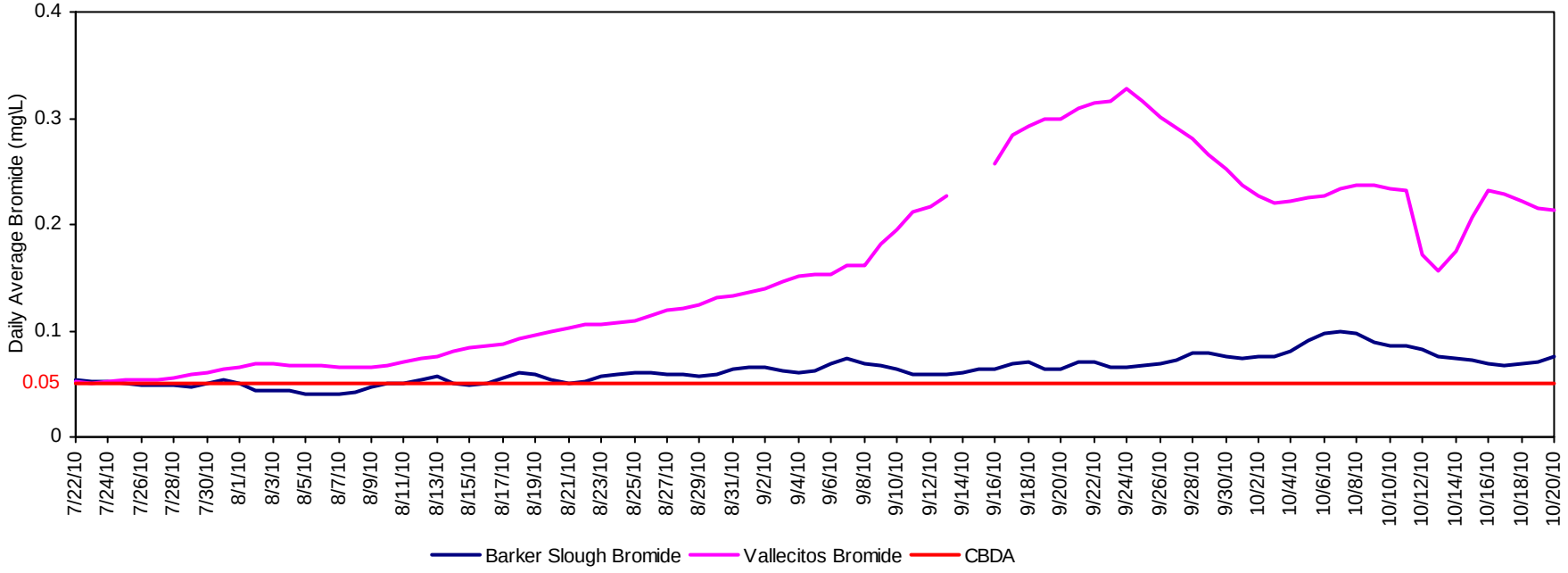
North and South Bay Aqueduct - Electrical Conductivity



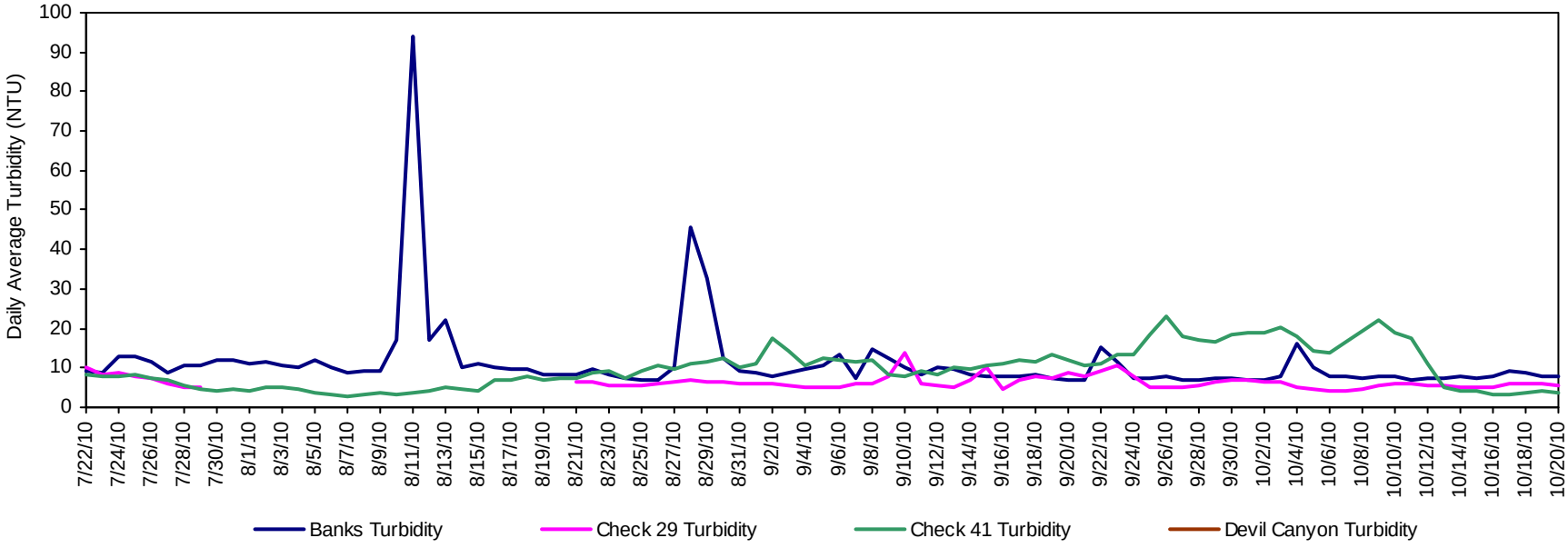
California Aqueduct - Calculated Bromide



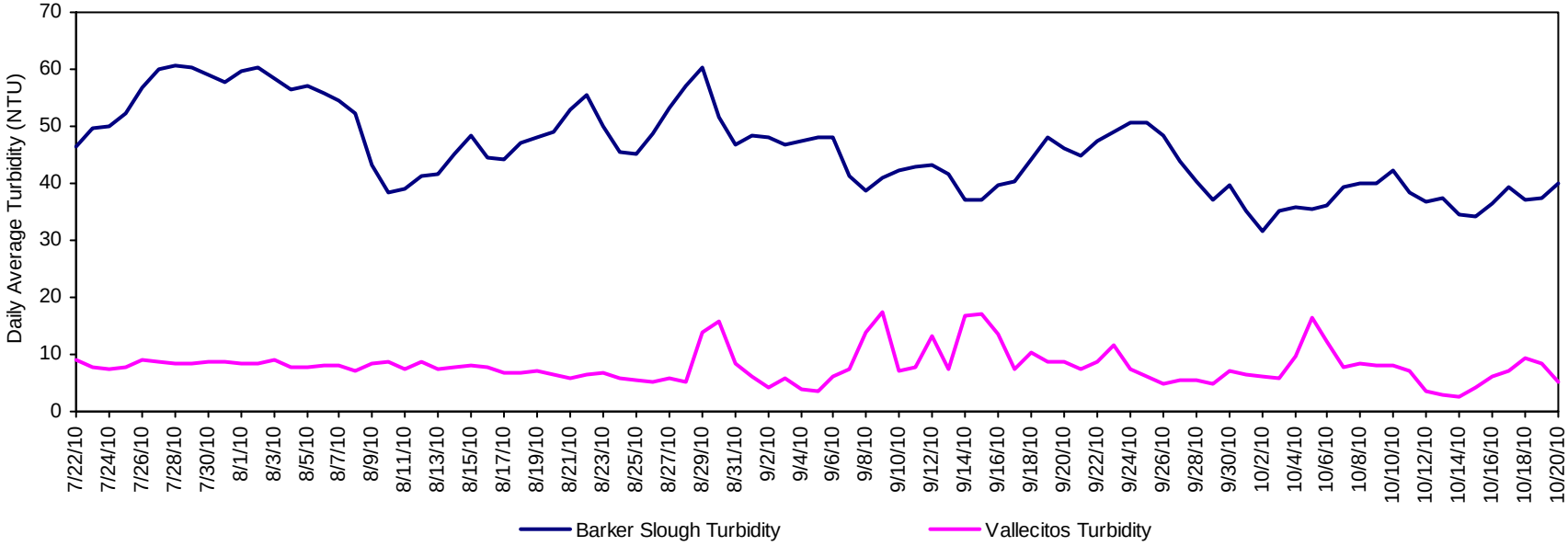
North and South Bay Aqueduct - Calculated Bromide



California Aqueduct - Turbidity



North and South Bay Aqueduct - Turbidity



California Aqueduct
Calculated Dissolved Organic Carbon